

Spy Pond Plant Reports

April to September 2021

Brad Barber

===== *April 9, 2021* =====

Good instructions for a weed weasel (aka rake toss) from MA Water Watch Partnership. I checked several sites on the sill and a couple by the outfall. Some growth in 3.5 to 5 feet of water. Nothing by the outfall. No curly leaf pondweed. On the sill, there was a thin-leaf pondweed and mostly a thread-like plant with short whirls of six threads every inch or so. Both covered with algae, but not badly. The thread-like plant did not have nodules like stonewort.

In 2017, the year after the last Sonar treatment, Solitude found curly-leaf pondweed during their June 13 survey and dense spiny naiad on August 4. The naiad was treated on August 28.

Today, Irwin Winkler caught an 18" chain pickerel about 10 yards from the Pleasant St. shore. He reports clear water with no weeds in evidence. Algae was coating the bottom, and some floating algae.

Tracey Petryshen has a dense mat of asian clams, about 3 feet in diameter. It was collected by a muskrat.

===== *April 15, 2021* =====

This afternoon I explored more of Spy Pond with a throw rake. I went directly across the pond towards Gould Road. Then to the north of Elizabeth Island, back along its west edge, finishing by the outfall near Rt. 2.

Where there's muck, there's plants with varying amounts of Chara (stonewort), filamentous algae, possible thin leaf pondweed, and curly leaf pondweed. The thin leaf pondweed that I reported last week may have been young curly leaf pondweed. I noticed that the new leaves on curly leaf pondweed have smooth edges like thin leaf.

The curly leaf pondweed (and filamentous algae) was heaviest on the north and northwest side of Elizabeth Island. Plants are up to a foot and a half long, most of them a third that length. More growth than last week. One anchor pull was covered in curly-leaf pondweed and muck. Some curly leaf pond weed was growing in 10' of water.

Hardly any growth near the outfall or near the Kelwyn Manor marsh. No muck. I didn't get into the SE cove or the other side of rock island.

There was a big fight at the south end of Elizabeth Island involving a dozen geese. One of them tumbled out the sky into the green brier. Looked like an injured or broken wing.

===== *April 25, 2021* =====

More exploration of Spy Pond with throw rake. The dominant plant is curly-leaf pondweed, with stonewort second. Some of the curly-leaf pondweed is 34" long. Some curly-leaf in 17 feet of water. I think the stonewort is Nitella instead of Chara as previously reported. Both are a form of algae. No thin leaf pondweed found.

Curly-leaf was over a foot longer than last week. Primary areas were the north tip of Elizabeth Island and north of Rock Island.

4/19/2021 -- SE bay with filamentous algae around edges. Sparse curly-leaf (< 6") off of Alfred Road. Bottom mostly leaves.

Peabody Rd in 4' of water -- lots of muck, stonewort, and a dozen curly-leaf 9-14" long.

4/24/21 -- Sill off of 76 Spy Pond Pkwy, 5'8" deep -- most throws were stonewort. A throw to the west was mostly curly leaf to 18" long

SW cove 3'9" deep -- 7 curly-leaf plants, 9" long on a throw north. Other throws 0-3 plants and 2 substantial curly-leaf, 12" long

Rock Island, half-way to Pleasant St shore, 6' deep -- north throw had all tines with curly-leaf 18-34" long. Other throws 1/2 to 3/4 of tines with curly-leaf. Mostly 12" long, with several long plants to 34". Raised anchor was full of curly-leaf.

Gould Road in 7.5' water -- heavy filamentous algae, no plants

between Elizabeth Island and 4 Devereaux in 5'3" water -- some stonewort and curly-leaf 10-18" long.

north tip of Elizabeth Island in 7'2" water -- the west throw had all tines with curly-leaf to 18" long. Other throws showed some curly-leaf 3" to 25" long and stonewort.

200' east of north tip of Elizabeth Island in 17' of water. West throw had lots of nitella, some curly-leaf to 18". Anchor covered with nitella and some curly-leaf to 19" long.

===== *May 2, 2021* =====

Here is a report of plants from the depths of Spy Pond, 5/2.

There was substantial growth of curly-leaf pondweed at all sites. The longest plant found was 52". On 4/24, the longest plant was 34".

Four sites -- 3.5 feet of water on the sill near Kelwyn Manor park, in 7' water north of Rock Island, in 8' water SW bay by Rt. 2, and 5.3' water between Elizabeth Island and Devereaux. Outfall is at 52 cm. Secchi depth at 4pm was at least 5'.

Throws south and west on the sill was mostly a rake full of nitella (Stonewort). A throw

north into deeper water was half nitella and half curly-leaf pondweed 15" to 28" long. A throw towards Elizabeth Island was mostly curly-leaf pondweed 24" to 34" long. On 4/24 the curly-leaf pondweed was 10" long near this site.

The throws and anchor pull at Rock Island were all curly-leaf pondweed with multiple plants for each throw 30" or longer. The longest plants were 44", 45" and 48" long. On 4/24 at this site, the longest plants were 34".

The SW cove location was in deeper water than on 4/24 (8' vs. 3.7'). The north and west throws (along or towards Rt. 2) had a small number of curly-leaf plants 18" to 24". The east throw into deeper water was full of filamentous algae, nitella, and curly-leaf pondweed -- 24", 31", 36" and 36" long). The south throw towards Kelwyn Manor was all curly-leaf (six plants up to 52" long). The anchor pull had one curly-leaf pondweed, 36" long. On 4/24 in shallow water, there was fewer plants, only up to 9" or 12" long.

Between Elizabeth Island and 4 Devereaux, all throws retrieved curly-leaf pondweed 12", 24", 24", 24", 24", 30", 34", 36", 36", 38". There was a few nitella plants and, on one throw, some filamentous algae. On 4/24 at a nearby site, there was some nitella and curly-leaf 10-18" long.

===== *May 13, 2021* =====

Curly-leaf pondweed is established on Spy Pond. The beds are similar to last year and the year before.

The densest bed is between Rock Island and the Pleasant Street shore in the south basin. It is clearly visible. In some places curly-leaf pondweed is a foot below the surface of the water.

The largest bed, and most disruptive, is along the Pleasant Street shore from near Gould Rd to the north end of Elizabeth Island. The bed is clearly visible. The curly-leaf pondweed is a 1.5 to 3 feet below the surface of the water. The bottom is approximately 5.5 feet deep. Curly leaf pondweed extends into the pond, especially around Elizabeth Island. The pondweed becomes sparse east of Elizabeth Island to the Pleasant Street shore.

Additional curly-leaf pondweed occurs in the south-east bay near Alfred Rd where the pond is 5.5 feet deep. Plants grow to 3.5 feet below the surface of the water.

A similar bed of curly-leaf pondweed is in moderately deep water in the south-west bay near the corner of Lake Street and Rt.2. The water is 10.5 feet deep at the intersection of the first stone steps to the Rt. 2 path and the second dock in Kelwyn Manor. With a secchi disk, curly-leaf pondweed is visible 7 feet below the surface of the water.

An extensive bed of stonewort (nitella) occurs from near the Kelwyn Manor boat ramp almost to Elizabeth Island. It is mixed with curly-leaf pondweed where the water is deeper than 5.5 feet or so.

===== *May 27, 2021* =====

Here is the Spy Pond plant report for Thursday afternoon, May 27, 2021, a week after Solitude Lake Management treated curly-leaf pondweed with diquat.

The treatment was successful, with no living curly-leaf pondweed observed. Nitella (stonewort) appears to be OK.

The SE bay was not in the treatment area, yet only stems remained of curly-leaf pondweed.

Secchi depth appears to track the treatment areas. Secchi depth was 7' in deep water near the condominiums, 6' in the north basin near Elizabeth Island, 5' 4" west of Elizabeth Island, and 4' 6" north of Rock Island. Algae, while present, does not appear to be a problem.

SE bay near Alfred Road in 5' 11" of water, just stems of curly-leaf pondweed remained in 3 rake tosses south, south-west, and north. Near the same location on May 24, curly-leaf was falling apart. Curly-leaf was three feet long on May 21.

SE bay near condominiums in 27 feet of water, secchi depth of 7 feet.

North basin in >30 feet of water, secchi depth of 6 feet.

Northwest of Elizabeth Island in 5 feet of water and southwest of Ricci's dock in 5'11" of water, dead curly-leaf pondweed with only stalks remaining. Nitella (stonewort) was observed in both locations. There was more Nitella near Ricci's dock. Secchi depth was 5'4".

North of Rock Island in 5'6" water. Dead curly-leaf pondweed with only stalks remaining. Medium Nitella and filamentous algae. Secchi depth 4'6"

SW bay not visited.

Recovered a new truck tire near Ricci's dock. The dead snapping turtle was nearby. Over the weekend, a floating tire was observed near Elizabeth Island and the condominiums. When observed from the condominiums, the tire appeared to have something inside it, like a "floating island". On Monday, the dead turtle was seen in the tire. I reported the tire and turtle to Arlington Animal Control.

===== *June 16, 2021* =====

Spy Pond is similar to my May 27 report. Secchi depth is better (8 feet north of Elizabeth Island). Nitella was found in the usual locations, with dense growth between

Kelwyn Manor marsh and Elizabeth Island.

There was one small plant that may be young spiny naiad, and one instance of matted algae that may be nitella. No other aquatic plants were found.

The May diquat treatment may have removed young snail-seed pondweeds as well as curly-leaf pondweed.

Further details --

On Tuesday and Wednesday (June 15 and 16), Spy Pond had dense growth of nitella between the Kelwyn Manor and Elizabeth Island. North of Elizabeth Island there was a large clump of nitella with some filamentous algae. Nitella was present in the SE and SW coves. I did not check Rock Island.

Near Spring Valley Road, I found something that looks like nitella but forms a soft mat instead of many branches [an aquatic moss]. At the same location there was a 1/2" plant with thin leaves sprouting from its base. Teeth were visible with a lobe. It looked like spiny naiad, but without any branching.

===== *June 26, 2021* =====

Spy Pond is similar to my May 27 report. Spy Pond remains clear and free of excessive algae.

On Saturday, I checked Rock Island and the Pleasant Street shore from Gould Road to Spring Valley Road.

Halfway between Rock Island and the shore, I found trace nitella. Secchi depth was 5' in dim light.

The Pleasant St. shore near Elizabeth Island showed moderate nitella, particularly between the Berman property and Elizabeth Island.

Near Spring Valley Road and its downed tree there was trace matted algae, less than reported 10 days ago.

No other aquatic plants were found.

===== *July 8, 2021* =====

Spy Pond has started to grow aquatic plants, particularly invasive Spiny naiad (najas minor). Sonar was previously applied in 2016. By August 4, 2017, spiny naiad was

dense in the SE cove, N. of Elizabeth Island, near Kelwyn Manor, and near Rt. 2. On August 28, Solitude Lake Management treated 38 acres with Reward (diquat). By then, boating was difficult.

Secchi depth appears to be decreasing. On a cloudy day, I measured 4'4" west of the northern tip of Elizabeth Island. Bill may have a more accurate figure.

On Wednesday, nitella appears to have decreased along the south shore between Elizabeth Island and Kelwyn Manor. It may be due to browsing by ducks. Rake tosses found moderate nitella and trace thin leaf pondweed (*P. pusilus*).

Rake tosses in SE bay near Alfred Road contained spiny naiad up to 9" long.

On Thursday, July 8, near 36 Peabody Rd (Jessen-Hatch) there was medium nitella, one spiny naiad, and two thin leaf pondweed. Matted algae and another spiny naiad plant was present nearby. Dense nitella occurred half way between Elizabeth Island and Judy Berman's. North of Rock Island in 6' of water there was sparse matted algae and no other plants. Shallow water was not tested.

In the SW cove in 4' of water by Lake Street and Rt. 2, three of four rake tosses showed moderate to dense spiny naiad up to 18" long. Matted algae and nitella was present on one toss. Further out in 6' of water, there was medium nitella and sparse spiny naiad.

No water chestnut or new invasives.

It appears that Sonar curtailed the growth of pondweed this year. A second booster treatment added extra month of treatment. Sonar may have limited spiny naiad's seed production last year. Each plant normally produces an immense amount of seed.

We should plan to treat spiny naiad in late July or soon thereafter. The treatment area may be substantially smaller than in 2017.

===== *July 23, 2021* =====

Friday, July 23, 5:00pm was sunny and calm. Secchi depth near the South basin buoy was 3'9". On July 16 at 11:20am, Secchi Dipin depth was 1.8m (5'9")..

Spy Pond appears to contain more microscopic algae than before. Multiple locations now include small globs of green algae growing on or near nitella. As before, soft matted algae was found along the north shore. Hardly any filamentous algae was found.

Spiny naiad has expanded its area on Spy Pond. It was moderate to full rake in the SW cove and moderate to full rake in the north basin near 36 Peabody Rd. At these locations, it grew to 27". The SE cove contained sparse naiad to 20".

On July 8, spiny naiad was moderate to full rake in the SW cove to 18". Two spiny naiad plants were found near 36 Peabody. It was present in the SE cove to 9".

Mallows are in bloom on Elizabeth Island and the Kelwyn Manor marsh. Elizabeth Island has swamp rose mallows (pink) while the marsh has marsh mallows (light pink, non-native).

Thin-leaf pondweed was seen at multiple locations, but limited to just a few plants.

We should consider a diquat treatment for spiny naiad in early August. The areas of concern are the SW cove, north and north-east of Rock Island, and the north basin near 36 Peabody.

Spiny naiad. Water depth is in parentheses.

1) Kelwyn Manor boat ramp to middle of KM marsh (4.5') -- trace to sparse. Up to 12".

2) SW cove, E of the first stone steps from Rt. 2 (4') -- moderate to full rake. Up to 27". Sparse naiad found near by along Spy Pond Pkwy.

3) Rock Island (4'10") -- sparse near Rock Island. Moderate further north and close to shore. Up to 18".

4) East of Rock Island, 210 Pleasant St (4.5') -- moderate. Up to 27"

5) East and West of Gould Road (4.5') -- sparse naiad. Up to 26".

6) West of Berman's, 4 Devereaux (4.5') -- sparse naiad. Up to 8".

7) West of Jessen-Hatch, 36 Peabody Rd (5') -- moderate to full rake. Up to 27".

8) half-way to Boys and Girls club, 44 Hopkins -- sparse naiad to 4"

9) SE cove, 300' north of Alfred Rd (5') -- sparse naiad to 20"

Nitella was present at most sites. Moderate to full rake occurred at

South shore along Sheraton Park to Kelwyn Manor boat ramp (4.5-5') -- moderate to full rake

Between Elizabeth Island and Pleasant Street from Ricci dock (4.5 - 5') -- moderate to full rake.

North end of Elizabeth Island (7.5') -- full rake

West of Jessen-Hatch, 36 Peabody Rd (5') -- sparse to full rake

Half-way to Boys and Girls club, 44 Hopkins -- moderate

Sill near south end of Elizabeth Island (6') -- moderate to full rake

===== *August 5, 2021* =====

Thurs August 5, 3:30pm was cloudy and calm. Secchi depth was 3'5" at the deep hole near the Rt. 2 infall (24' deep). It was 3'9" on July 23 near the south basin (5pm sunny).

Today was a reduced plant survey from my dock on the south shore to Rock Island. The water looked cloudy and a small patch of soft matted algae was found along the north shore. Otherwise no algae was found. Naiad was the only rooted plant.

On west and east tosses near my dock (4' deep), medium naiad found to 18" long. The north toss had light naiad. On July 23 near this location, trace to light nitella and one naiad.

As before, no plants found at mid marsh (3' deep).

In the SW cove dense naiad found to 22" long, similar to July 24.

Sparse naiad found opposite the second Rt. 2 stone walk (6' deep). None was found July 24.

Water gauge was 52 cm after an inch and half of rain.

150' from the Pleasant Street shore near Rock Island (5.5' deep), found a small patch of matted algae. Other tosses was trace to medium naiad. Naiad was 32-33" long on the west toss and anchor pull. On July 24 the naiad was up to 18" at this location.

With a 10x loupe, I checked the naiad identification with DCR's *Guide to Aquatic Plants in Massachusetts*. Massachusetts has four species of naiad. The teeth count and leaf appearance matched *Najas minor* (spiny naiad, european naiad). I was not able to distinguish the leaf base, perhaps because the plants are immature. No seeds are visible.

Please let me know if you have an identification suggestion for the soft mats of branched plants similar to stonewort (nitella), but matted, substantially more compact, and soft [aquatic moss].

===== *August 15, 2021* =====

Spy Pond is murky with a greenish tint -- looks like microscopic algae. Secchi depth is

substantially reduced. There may be blue-green toxins. Yesterday my eyes stung if I kept them open under water.

Should we consider an algae treatment along with the naiad treatment currently scheduled for Wednesday?

Today's plant survey continued my abbreviated survey of Aug. 5. Naiad is predominant in the SE cove, the SW cove, and north and north east of Rock Island. A small batch may remain in the north basin near 36 Peabody. Medium naiad was found near 10 Sheraton Park in Kelwyn Manor.

Unlike previous reports, little or no nitella was found. In addition, no filamentous algae or algae clumps were observed.

Sunday Aug 15, 11am to 1pm was sunny with a light wind. Secchi depth in the North basin was 2'1" and 1'10" near the north end of Elizabeth Island. On August 13, Bill Eykamp reported 2' for the South basin.

On August 5 (3:30pm cloudy), I measured 3'5" at the deep hole near the Rt. 2. infall. On July 16, Bill measured 5'11" in the South basin for Secchi Dipin.

On Aug 5, I found medium naiad near my dock and the Kelwyn Manor boat ramp, full rake naiad to 22" in the SW cove, and trace to medium naiad to 33" long between Rock Island and the Pleasant Street shore.

Today, near my dock, only trace naiad was found. Further east near the recent coir logs, medium naiad was found. Only trace naiad or nitella was seen from there, to north end of Elizabeth Island, and along the Pleasant Street shore towards the Boys and Girls Club. On July 23, these areas contained medium to full rake nitella.

On July 23, naiad was moderate to full rake in the north basin near 36 Peabody Rd. Otherwise it was trace to no naiad around Elizabeth Island and to the east. Today, I checked to the left and right of 36 Peabody Rd and did not find naiad. Naiad may remain at this location.

The SE cove near Alfred Road had full rake naiad to 36" long. Water depth was 4 feet.

===== *August 31, 2021* =====

Tuesday, 8/31/2021, 4:30pm was sunny with a light breeze.

Rake tosses filled a 5 gallon bucket with packed naiad. No other rooted plants were found.

The areas of dense naiad are

- 1) Southeast bay near Alfred Road, extending along the shore to the second condo building.
- 2) South basin along Pleasant Street, north and northeast of the white buoy at Rock Island (220 Pleasant St to 210 Pleasant St).
- 3) Southwest bay at Spy Pond Pkwy and Rt. 2, near the first and second docks, and the first stone steps on Rt. 2.

Insufficient daylight to check the Kelwyn Manor boat ramp. I'll check it tomorrow.

----- counterclockwise locations on Spy Pond ----

SE bay, 140' north of Alfred Road in 5' deep water. -- South toss towards Alfred Rd produce dense naiad up to 38" long.

SE bay, 200' north of Alfred Road in 5' 10" deep water (across from 1st condo building) -- no plants found.

SE bay, between the 1st and 2nd condo building, 75' from shore -- E toss, medium naiad to 40" long.

SE bay, in front of the 3rd and the 4th condo building -- no plants found

Between Elizabeth Island and the Pleasant St shore -- no plants found. Trace naiad was found SE of the dock at 10 Devereaux (Ricci).

South basin along the Pleasant St shore, northeast of the white buoy at Rock Island, and near a sail boat with a bright neon sail, 5' 3" deep water -- E toss dense naiad to 45" long. W toss full rake to 34" long

South basin along the Pleasant St. shore, north of the white buoy at Rock Island (near an old, brown gazebo), 75' from shore, 4' 9" deep water -- E toss dense naiad, W toss dense naiad to 36".

South basin along the Pleasant St. shore, at a simple dock at 224 Pleasant Street -- no plants.

NW corner by Rt. 2 and Pleasant Street, dock at 252 Pleasant St (Schweich) -- trace naiad.

SW bay by Rt. 2 and Spy Pond Pkwy, 75 feet north of the second dock, 4' deep water -- N toss dense naiad.

SW bay by Rt. 2 and Spy Pond Pkwy, 100 feet northwest of the second dock, 3' 10" deep water -- S and N toss nothing. E toss medium naiad/

Spy Pond Pkwy, third dock, 5' deep water -- W toss, sparse naiad

===== *Sept 2 to Sept 10, 2021* =====

Spy Pond was treated for naiad on September 3 with 37.5 gallons of diquat on 25 acres. On Sept 10, naiad was either dead or dying throughout Spy Pond. The SWCA survey of Spy Pond will be sometime next week.

The naiad has apparently not gone to seed. The day before treatment, I dried about a quart of naiad. It was crushed and sieved. Vegetated material was skimmed off. One seed was found in the sieved portion. It was a 2 mm lumpy sphere. Spiny naiad has a 2mm elongated seed.

Details Sept 2 to 10

Sept 2, 2021 6:00 clear

50' from 74 Spy Pond Pkwy dock in 3.5' water -- Trace naiad on north toss.

200' from 74 Spy Pond Pkwy dock in 5' 2" water -- Medium naiad to 2' on west toss. Medium naiad on east toss. Sparse or none on south and north tosses.

near Kelwyn Manor ramp in 5' water -- Quarter rake of naiad to 2' on south and north toss. Lots of naiad on anchor.

Start of Kelwyn Manor marsh in 4' water -- Full rake of naiad to 3' long on north toss.

300' from start of woods behind marsh, 6' 5" water -- Full rake of naiad to 3' on south and southwest tosses. None on north toss.

300' from furthest extent of marsh, 5' 10" water -- Dense naiad to 4' long on north and west toss

400' from furthest extent of marsh, 7' 2" water -- Full rake on south toss, none on north toss.

Sept 3, 2021 12:00 clear, breezy

Diquat -- Tanner Poole applied diquat in the morning (37.5 gallons of diquat on 25 acres). The treatment areas were the SE cove and condominiums; Pleasant St shore from west of Gould Rd to east of Rt. 2; and, the Kelwyn Manor shore from the SW cove to the Kelwyn Manor boat ramp.

East of 74 Spy Pond Pkwy dock along shore and towards Elizabeth Island, multiple locations -- None to sparse naiad.

Half-way between 74 Spy Pond Pkwy dock and Pleasant St shore, 7' 6" water -- Medium nitella and trace naiad on S and E toss.

Rock Island buoy was a couple of inches below the surface of the water.

Deep hole near Rt. 2 drain, more than 20' water -- secchi 4'4".

Spy Pond outfall -- water gauge at 73.5 cm, outlet pipe full with water on all sides of outfall.

South basin buoy, water 19' -- secchi 4' 3".

Sept 4, 2021

At Noyes dock, Sheraton Park, 1:00p -- murky water

At 74 Spy Pond Pkwy dock, 5:00p -- clear water

Sept 5, 2021, 2:00 pm, cloudy, light breeze

North basin near south end of Elizabeth Island -- Secchi 3' 4", water a murky, dark olive color

Rt. 2 drain, 10' water -- many areas with small bubbles rising to the surface, secchi 5', black water

South basin -- secchi 5' 2". Flopping fishes breaking the surface, not due to cormorants (they were elsewhere).

Outfall -- water level at 59.5 cm. Flowing on all sides for the structure. A thin layer of light green algae on the surface

200' from Kelwyn Manor ramp -- secchi 4' 6". Water a murky dark green, some algal smell, an algae layer just below the surface

Sept 10, 2021, 4 pm, sunny and windy

100' from Kelwyn Manor ramp -- secchi 5'. Trace dead naiad on east and north toss. Medium dying naiad on west toss

Furthest extent of Kelwyn Manor marsh, water 11' 2" -- secchi 4' 10". Nothing on south toss

200' from 2nd dock in SW cove, in line with 1st stone walk, water 5' 2" -- Medium and full dead naiad on east and west toss.

South basin buoy -- secchi 4' 11"

20' east of Rock Island buoy, water 5' -- algae in water column, almost sparkling not clumping. Medium dead and dying naiad on north toss

200' east of Rock Island -- secchi 4' 2"

Halfway between Purcell's and Ricci dock on sill, water 6' 2" -- medium dead naiad (4' long) on E toss

Halfway between Elizabeth Island and Berman, north of Elizabeth Island, water 5' 2" -- a 1" dead thin leaf pondweed, a 1" green nitella on west toss

20' east of Hodge in north basin, water 5' 2" -- secchi 5' 2". Algae on surface and sparkling in water column. Closer to shore some algae clumps, sparse dying naiad on east toss

North basin, water 20' -- secchi 5' 8". Algae in water column, a few small clumps of algae, also bubbles from bottom.

SE cove, 200' north of Alfred road, water 5' 6" -- secchi 5' 3". More algae than elsewhere with small clumps. Medium dying naiad (4' long) on east toss.

Under willows across from last condo building -- 2 small green plants with fuzzy stem and short, green fuzzy branches. With a 10x loupe, the leaves were 2mm delicate green, alternating, entire, wide at base and tapering to a sharp point.

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